

METHOD FOR FORMING MIXED LIQUID CRYSTAL BINARY MIXTURE WITH V-SHAPED SWITCHING

5 The present invention provides a mixed liquid crystal binary
mixture with V-shaped switching electro-optical response
characteristic, which is produced by achiral swallow-tailed material
doped with the antiferroelectric liquid crystal material or with the
ferroelectric liquid crystal material. The achiral swallow-tailed
10 compound as the main material that is doped with the antiferroelectric
liquid crystal material or with the ferroelectric liquid crystal material to
produce the binary mixture, wherein the mixed liquid crystal binary
mixture exhibits the electro-optical response of V-shaped switching in
the antiferroelectric phase or in the ferroelectric phase.